



Union Hard Chromium Co., Inc.

136 Market Street, Kenilworth, NJ 07033

Tel. (908) 298-8980 Fax: (908) 298-1966

I am employed by Union Hard Chromium Co. Inc., Which has been involved in electro polishing products for 38 years. I personally have electro polished products for 20 years. I have 20 years of experience in polishing of many different products. I consider myself to be a skilled person in the field of electro polishing. To my knowledge, the process of electro polishing has not varied much over the last decade.

I have been contracted to electro polish two saw blades using conventional electro polishing techniques. I inspected the saw blade products before the electro polishing process. The saw blades appeared to be the same type of blade. I personally conducted the electro polishing process. The electro polish method that I used was current, state-of-the-art, and consistent with the commercially reasonable to apply.

The process was applied correctly. Upon inspecting the resulting product, in my opinion as one skilled in this discipline, I consider the results to be unacceptable both cosmetically and in regard to structural consistency. The resulting products showed poor polishing and heavy smut. In my opinion, no degree of process refinements would have changed the resulting finish. I do not consider electro polishing a suitable polishing option for carbon steel products, such as saw blades, since the resulting finish will not be consistent.

I certify that the foregoing is accurate and true.

Sincerely,

April 27, 2004

Cutter's Edge
Sharpening Service
345 Lakeview Avenue
Clifton, New Jersey 07011
1 (973) 772-6887

To Whom It May Concern:

I have been in the saw and tool processing business professionally since 1975 and currently own and work for Cutter's Edge. In my experience over the last 29 years, I have seen and worked with almost every type of saw device that has been developed. Most of those devices have been worthless. In the industry, I am what is known as a "saw smith."

I have inspected and tested two blades for preparing this report. One blade was processed using the "Mikronite finishing" process. The other blade was electro polished.

I am very familiar with saw blade products that have been processed using the Mikronite finishing process.

Unlike a plated or coated saw blade, the Mikronite finished blades have a smooth, polished, uncoated surface.

One of the problems with blades that are coated or plated with chrome, Teflon or paint is that they can peel or scratch. This defeats the purpose of the coating itself and increases the friction that develops between the blade and the product being cut.

With the Mikronite finishing process the blade is abrasively polished at high speed. There is no coating to peel or scratch. Hence, the blade maintains a smooth surface throughout its life.

I am very familiar with electro plating processes. Generally speaking, in order to electro plate a saw blade you must first chemically treat the base saw blade. This step etches the plate. Also since it is difficult if not impossible economically to mask the carbide tips and the bonds that hold the tips to the plate, these components would also be surface etched too. This can result in chipping of the carbide tips and weakening of the bond that holds the carbide tips to the plate. Thus, in my opinion, electro plating would not be a good process on a saw blade product.

PHIP37819A1

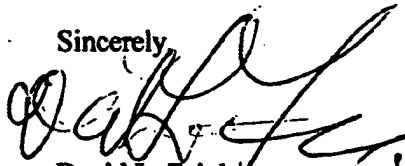
The Mikronite finishing process polishes the saw plate to a fine glass smooth finish. Minimizing the friction and resistance to the material being cut. At the same time the blade is polished, the carbide tip is also polished with the mikronite process. This produces a sharper carbide tip and sharper saw blade.

I conducted some tests comparing a electro polished saw blade against a Mikronite finished saw blade. One of the key test I conducted was a vibration or ring test. Both blades were fixtures and hit so as "ring". The difference in resulting tone is a direct indication in the structural characteristics of the blades. The blades had noticeable differences in tone. In my opinion, these blades are structurally different from one another.

Based on my testing and inspection, my conclusion is that the Mikronite finishing process produces a saw blade with carbide tips that allows the blade to cut faster, with less heat build-up and it lasts longer than any saw blade I am aware of.

I certify that the above information is true and accurate.

Sincerely



David L. Feinberg

AST

X-RAY DIFFRACTION SERVICE REPORT

Surface Residual Stress Measurements by XRD on Three Saw Blades

Daniel Manning
Mikronite Technologies, Inc.
511 Washington Avenue
Carlstadt, NJ 07072

DATE COMPLETED: 4/26/04

P.O. NO.: 5164-00042604

DATE RECEIVED: 4/22/2004

SAMPLE ID & DESCRIPTION: Three saw blades with ID's: Unprocessed; Electropolished; and Mikronite Processed. Use same constants used historically with this company's samples: 1008/1018. Measure within area marked with black ink. We will include both radial & circumferential directions.

SCOPE: Perform three surface XRD stress measurements on three saw blades in the marked areas.

RESULTS: As per attached sheets.

MEASUREMENT TECHNIQUES IN COMPLIANCE WITH:

"SAE, 784a - Residual Stress Measurement by X-Ray Diffraction".
(SAE 784a is a retired document no longer supported by SAE)
(Exception: AST uses a modern Modified-Psi diffractometer configuration instead of traditional Omega or Psi.)

Project Manager
Charles H. Flinn

Project Engineer
Charles H. Flinn

- The results of this report relate solely to the items tested. This report shall not be reproduced except in full, without the approval of American Stress Technologies.

American Stress Technologies, Inc.

267 Kappa Dr, Pgh, PA 15238 (412)963-0676, fax:(412)963-7552, e-mail: Info@ASTresstech.com, web: www.ASTresstech.com

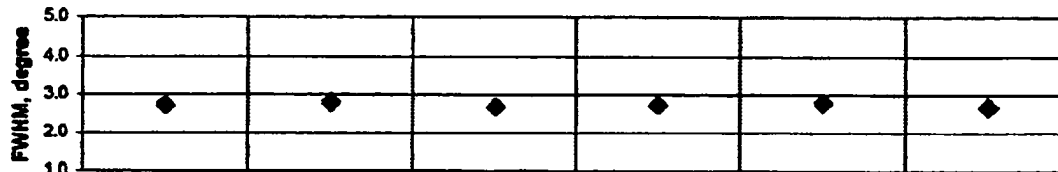
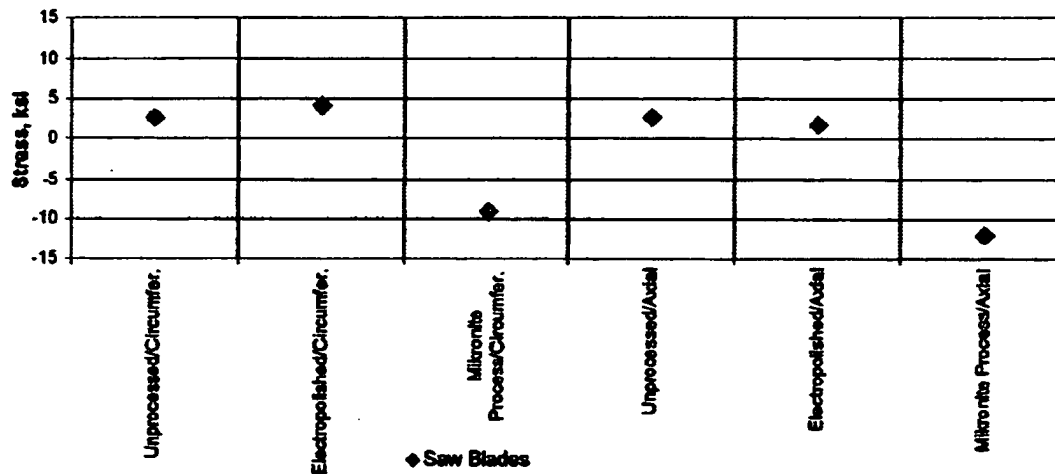
RESIDUAL STRESS RESULTS

Mikronite Technologies, Inc.
Saw Blades

Radiation (nid) :	Crta (211)	Spot Size :	3 mm dia. coll.	Exposure Time :	5 seconds
Tilt Settings :	-40-0-40 4/4	Oscillation :	+/- 5 deg psi	Material Removal :	none
Material Constant :	Steel 1008/1018	Modul. E / Poisson v	207000 MPa/ 285	Machine/ Soft. Ver.	BlueX3000/1.12.1

Location: area near circumference in ink.
Since no direction was requested we measured in 2 directions.

Saw Blades			
ID/Measurement	Stress	Error	FWHM
Direction	ksi	+/-	°
Unprocessed/Circumfer.	2.7	0.4	2.75
Electropolished/Circumfer.	4.2	0.5	2.82
Mikronite Process/Circumfer.	-9.0	0.6	2.69
Unprocessed/Axial	2.7	0.4	2.74
Electropolished/Axial	1.7	0.1	2.79
Mikronite Process/Axial	-12.0	0.5	2.68



FWHM - Full Width at Half Max... measure of peak width.

0 Stress Fe Powder Performance Verification Check Measured: 0.1 +/- 0.4 ksi



PATENT

Attorney Docket No.: 9436-9 (147359)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re:	Patent application of	:
	Steve E. Hoffman	:
		:
Serial No.:	09/965,162	: Group Art Unit:
		: 3724
		:
Filed:	September 27, 2001	: Examiner:
		: John Windmuller
For:	IMPROVED SAW BLADE	:
		:

DECLARATION OF JEFFREY H. COATS

I, Jeffrey H. Coats, declare as follows:

1. I am President & Chief Executive Officer of Mikronite Technologies Group, Inc., and have been working for Mikronite Technologies Group, Inc. since February 2002.
2. Since August 2001, I have been Managing Director of Maverick Associates LLC, a financial consulting and investment company.
3. From July 1999 to July 2001, I was a Founder and Managing Director of TH Lee Global Internet Managers, L.P., a fund focused on making equity investments in eCommerce and Internet-related companies globally. I am currently a limited partner of the fund.
4. I also served as Managing Director of GE Equity, Inc., a wholly-owned subsidiary of General Electric Capital Corporation, from April 1996 to July 1999. I handled strategic and financial investments in the Internet, eCommerce, media and entertainment, retail and consumer products and services. Many of these investments were made in conjunction with other GE operating subsidiaries, including NBC, GE Lighting and GE Appliances. I have also held various positions, including as Managing Director, of GE Capital Corporate Finance Group, Inc., a wholly-owned subsidiary of General Electric Capital Corporation, from June 1987 to April 1993.
5. I have a B.B.A. in Finance from the University of Georgia and an MBA in International Management from the American Graduate School of International Management.

6. I am knowledgeable about the process and product described and claimed in Application Serial No. 09/965,162. The process relates to surface process finishing process and the product that the process is applied to is a saw blade. I am familiar with testing that has been performed on the saw blade product before and after the process was applied to it.

7. Prior to application of the process, the saw blade product had a conventional rough surface finish. After application of the process, the blade surface was noticeably altered. It had a smooth sheen with a very smooth surface finish.

8. Mikronite Technologies Inc., a subsidiary of the Mikronite Technologies Group, Inc., has licensed the process described in Application Serial No. 09/965,162 to, DeWalt Power Tools, a world renowned manufacturer of power tool products, including saw blade products.

9. DeWalt has performed extensive testing of a saw blade manufactured in accordance with the claimed invention in Application Serial No. 09/965,162. As a result of that testing, DeWalt has begun marketing the saw blade. As part of its marketing, DeWalt promotes the saw blade as having a "Micro Polished Cutting Edge" that "reduces friction and drag." Specifically, the material accompanying the saw blade states that it is "Not a coating. Will not wear off." These relate to the structural, not cosmetic, features of the saw blade. Attached as Exhibit A is the product packaging illustrating the key structural features of the blade that are part of the marketing of the saw blade. This acknowledgement of the structural features of the saw blade from a company that is a leader in the industry and that has been involved making and selling saw blades is clear evidence that the saw blade is distinguishable from existing saw blades.

10. Although the product has just been introduced, there has already been tremendous interest from the industry and the plans are in place for worldwide distribution.

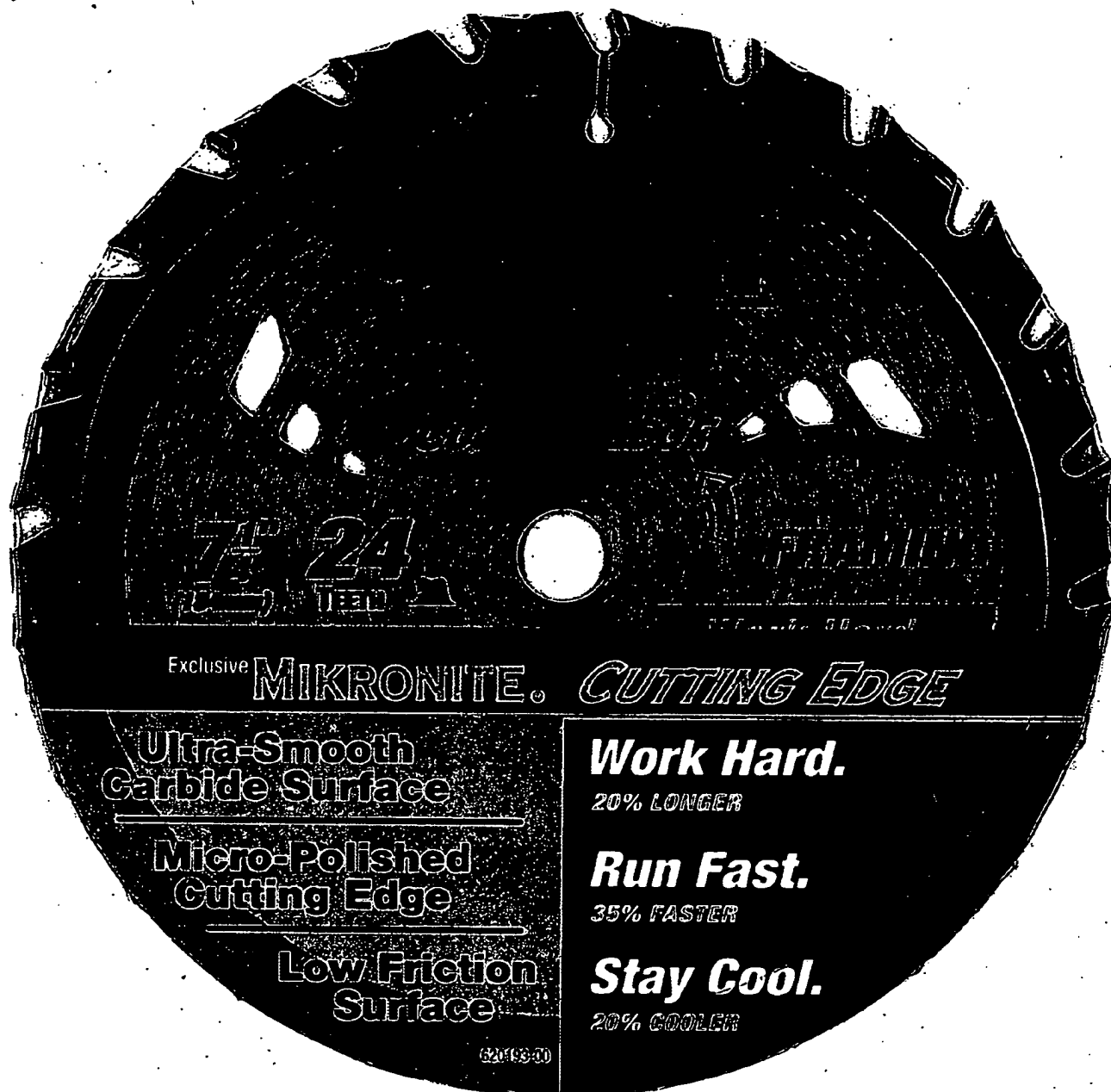
ACKNOWLEDGMENT AND DECLARATION

I declare that all the statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code; and that such willful false statements may jeopardize the validity of this application and any patent issuing thereon.

Respectfully submitted,

2-2-04
Date


Jeffrey H. Coats



Exclusive

MIKRONITE. *CUTTING EDGE*

**Ultra-Smooth
Carbide Surface**

**Micro-Polished
Cutting Edge**

**Low Friction
Surface**

Work Hard.

20% LONGER

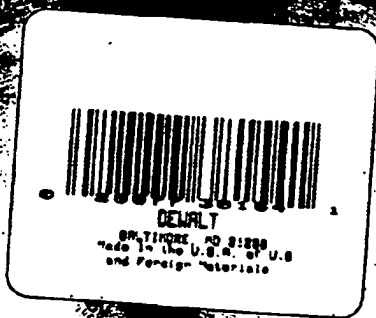
Run Fast.

35% FASTER

Stay Cool.

20% COOLER

62463-01



What is the MIKRONITE[®] process ?

- Patented metal finishing process
 - Reduces friction and heat caused by friction
- NOT A COATING. WILL NOT WEAR OFF.**

Where is the MIKRONITE[®] process used ?

- Anywhere that friction needs to be minimized, to ensure longer life
 - Automotive parts, Industrial bearings, Medical implants
- The same technology that is used to protect high performance racing engines is now used to protect and improve DEWALT saw blades.*

How does the MIKRONITE[®] process work?

Ultra Smooth
Carbide Surface

Prevents build-up of corrosive materials that damage carbide.

Work Hard
20% longer

Micro Polished
Cutting Edge

Reduces friction and drag for faster cutting.

Run Fast
33% Faster Cuts

Low Friction
Surface

Lowers cutting temperatures
for increased blade life.

Stay Cool
20% less Heat

What does the MIKRONITE[®] process do?

- Cuts faster and smoother in all types of building materials - natural and synthetic
 - Pine, OSB, Plywood, Particle Board, PSL, LVL, Pressure Treated Lumber
- Makes easy work of tough cuts
 - Arch cuts, long-bevel and rip cuts

MIKRONITE is a registered trademark of Mikronite Technologies Group Inc. Manufactured under one or more of the following U.S. Patents: 5,355,638; 5,848,929; Patent Pending.

The shiny rim is a trademark for DEWALT[®].